IN THE CLAIMS

This listing of the claims replaces all prior versions of the claims in the application.

Claims 1-10 (Canceled)

11. (**Currently Amended**) An isolated [human] antibody that specifically binds to a polypeptide selected from the group consisting of:

- a) a polypeptide comprising the amino acid sequence of SEQ ID NO:1, and
- a polypeptide comprising a naturally occurring amino acid sequence at least 90%
 identical to the amino acid sequence of SEQ ID NO:1 and having phosphatidylinositol
 4,5-bisphosphate 5-phosphatase activity.

Claims 12-29 (Canceled)

- 30. (Withdrawn) A diagnostic test for a condition or disease associated with the expression of PBPP in a biological sample comprising the steps of:
 - a) combining the biological sample with an antibody of claim 11, under conditions suitable
 for the antibody to bind the polypeptide and form an antibody:polypeptide complex;
 and
 - b) detecting the complex, wherein the presence of the complex correlates with the presence of the polypeptide in the biological sample.
 - 31. (Original) The antibody of claim 11, wherein the antibody is:
 - a) a chimeric antibody,
 - b) a single chain antibody,
 - c) a Fab fragment,
 - d) a F(ab')₂ fragment, or
 - e) a humanized antibody.

- 32. (Original) A composition comprising an antibody of claim 11 and an acceptable excipient.
- 33. (Withdrawn) A method of diagnosing a condition or disease associated with the expression of PBPP in a subject, comprising administering to said subject an effective amount of the composition of claim 32.
 - 34. (Previously presented) A composition of claim 32, further comprising a label.
- 35. (Withdrawn) A method of diagnosing a condition or disease associated with the expression of PBPP in a subject, comprising administering to said subject an effective amount of the composition of claim 34.
- 36. (**Currently amended**) A method of preparing a polyclonal antibody with the specificity of the antibody of claim 11, the method comprising:
 - a) immunizing an animal with a polypeptide having an the amino acid sequence of SEQ ID
 NO:1 under conditions to elicit an antibody response; and
 - b) screening for a polyclonal antibody which binds specifically to a polypeptide having an the amino acid sequence of SEQ ID NO:1.
 - 37. (Previously presented) A polyclonal antibody produced by a method of claim 36.
- 38. (Previously presented) A composition comprising the polyclonal antibody of claim 37 and a suitable carrier.

39. (Currently amended) A method of making a monoclonal antibody with the specificity of the antibody of claim 11, the method comprising:

- a) immunizing an animal with a polypeptide having an the amino acid sequence of SEQ ID NO:1 under conditions to elicit an antibody response; and
- b) screening for a monoclonal antibody which binds specifically to a polypeptide having an the amino acid sequence of SEQ ID NO:1.
- 40. (Original) A monoclonal antibody produced by a method of claim 39.
- 41. (Previously presented) A composition comprising the monoclonal antibody of claim 40 and a suitable carrier.
- 42. (Original) The antibody of claim 11, wherein the antibody is produced by screening a Fab expression library.
- 43. (Original) The antibody of claim 11, wherein the antibody is produced by screening a recombinant immunoglobulin library.
- 44. (Withdrawn) A method for detecting a polypeptide having an amino acid sequence of SEQ ID NO:1 in a sample, the method comprising:
 - incubating the antibody of claim 11 with a sample under conditions to allow specific
 binding of the antibody and the polypeptide; and
 - b) detecting specific binding, wherein specific binding indicates the presence of a polypeptide having an amino acid sequence of SEQ ID NO:1 in the sample.

- 45. (Withdrawn) A method of purifying a polypeptide having an amino acid sequence of SEQ ID NO:1 from a sample, the method comprising:
 - a) incubating the antibody of claim 11 with a sample under conditions to allow specific binding of the antibody and the polypeptide; and
 - b) separating the antibody from the sample and obtaining the purified polypeptide having an amino acid sequence of SEQ ID NO:1.

Claims 46-47 (Canceled)